

ARE WE VACUUM WAVES?

AN ADVENTURE INTO COSMOLOGY AND BIOLOGY

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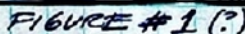
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Are our lives a form of emergent then decaying vacuum energy solitons? Does immortality reside in the empty space? Why is it that we can be tuned into and feel certain signals like the remote death of a loved one yet we don't feel the deaths of people who are unknown to us? It may be that our presence as live matter in the vacuum sea is more deeply connected to the universe as a whole in a way we have not understood before. It could be that our consciousness is a soliton like perturbation or wave on the deep energy sea that we call space. Space is more than a vacuum with occasional islands of matter. It is a seething quantum sea of energy. When solitons of energy interfere with each other constructively then perhaps we can look over the ocean of space to allow the universe to see itself. In this view 'heaven' and 'timeless' eternity are all around and inside us.

The great 'hidden' sea of vacuum energy upon which we appear as transient soul-soliton rafts appears as 'empty space' to us. The atoms and molecules of which we are made are merely the causal networks for the expression of transient soliton energies.

The local vista we call 'reality' is our temporary view over the surface of the infinitely deep cosmic sea of energy that is the vacuum.

After all we are always part of the vacuum.



collective \sum_i of all nodes of V (assume X^i "space")
 $i = 1, 2, 3, \dots$

$$\Gamma \equiv \bigotimes_{k,j} |E_{k,j,k}\rangle$$

THE TIME
(MISPLACED) IS
LEFT FOR
THE ENTIRELIST.
MIND TO
BECOME NAME
WITH THE
FLUCTUATIONS

PRELIMINARY IDEAS
ABOUT THE
"PHYSICS" OF
MISSING ENERGY
MATTER AND THE
DEEP ENERGY OF THE
VACUUM AND THE
"HEAVEN"
LOCATIONS

12/23/83

12/23/03
3:20:23 PM

10 AM EST
Ideas from Scott Matheson ^{in Pacific} ~~interview~~ ^{©2003} O. Kansas M.D. ^{Wash}

MISSING MASS & ENERGY AS RELATIVE VACUUM LEVELS*

(SCOTT M.H. HITCHCOCK)
[4/27/13 7:52AM EST]

NON-CASIMIR REGION
 $d_{m,m_2} \gg d_p$

CASIMIR DETECTOR
IF: CASIMIR VACUUM
 $d_{m,m_2} = d_{\text{CASIMIR}} = nd_p$

PAGE 1

WHAT WE SEE

[LIGHT] M_{OBS} = OBSERVABLE MASS
[DARK] M, m = MISSING MASS
[DARK] M, E = MISSING ENERGY

EXPERIMENTAL DESIGNS INCLUDE TEST FOR VACUUM LEVEL TRANSITIONS

EXPERIMENTAL DOMAIN OF PHOTON/PARTICLE SCATTERING & DECAY EVENTS & PHOTON ENERGY SHIFTS

THEN OBS. "VACUUM" PENETRATES INTO "MISSING" MASS & ENERGY DOMAINS

I, II, III VAC LEVELS

Color CODE

OBSERVABLE MASS & ENERGY $|\psi_{m_{\text{OBS}}}\rangle \Rightarrow \text{I}$

MISSING MASS $|\psi_{m_m}\rangle \Rightarrow \text{II}$

MISSING ENERGY $|\psi_{m_e}\rangle \Rightarrow \text{III}$

MULTI-VACUUM UNIVERSE

DISTANCE (UNITS OF PLANK DISTANCE (LENGTH))
 $d_p = 1.6 \times 10^{-35} \text{ m}$

$|\psi_u\rangle = |\psi_{m_{\text{OBS}}}\rangle \otimes |\psi_{m_m}\rangle \otimes |\psi_{m_e}\rangle$ CURRENT EPOCH

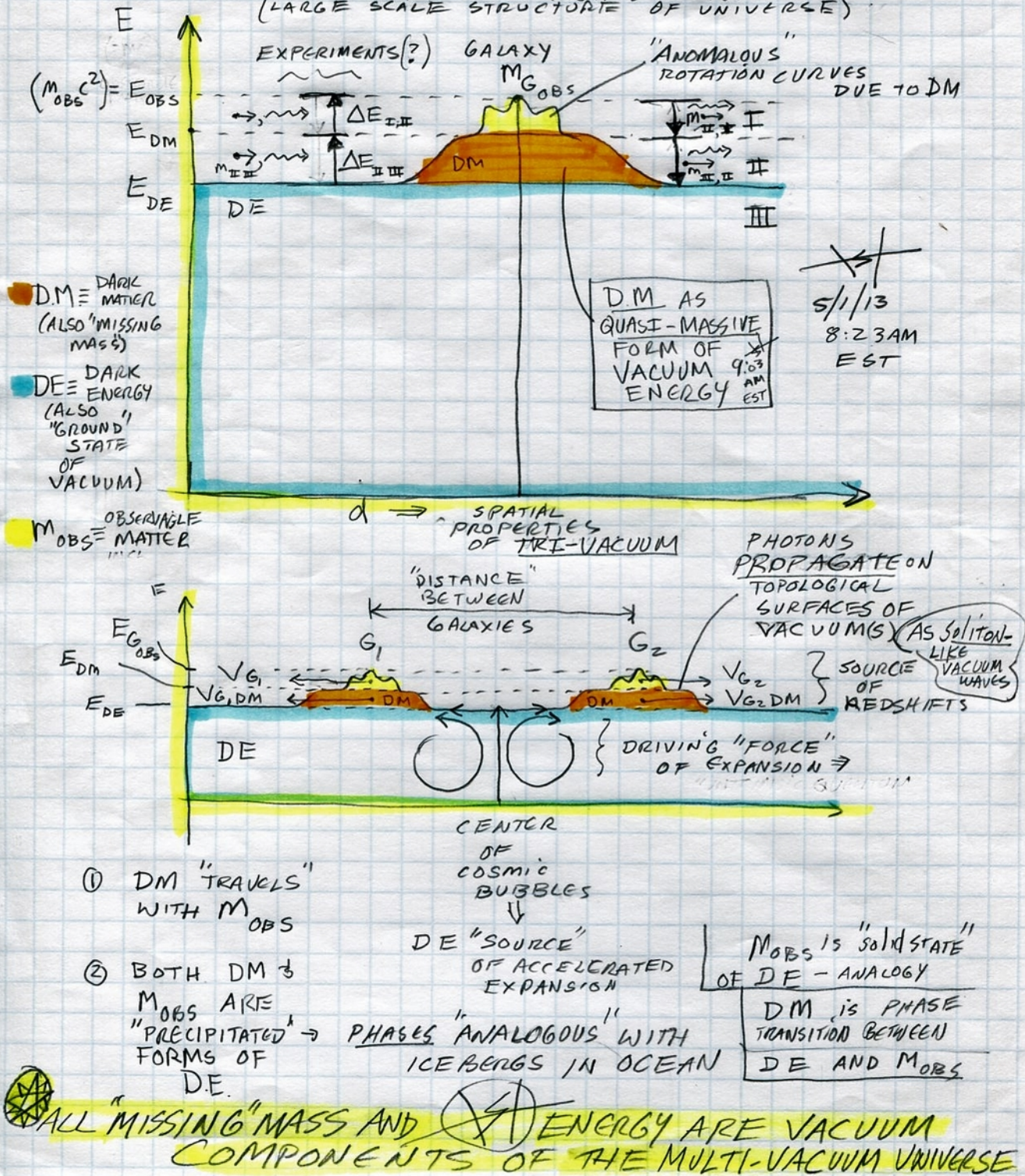
WHERE: $|\psi_{\text{VAC}_{\text{OBS}}}\rangle = |\psi_{m_m}\rangle \otimes |\psi_{m_e}\rangle$ MIXED STATE

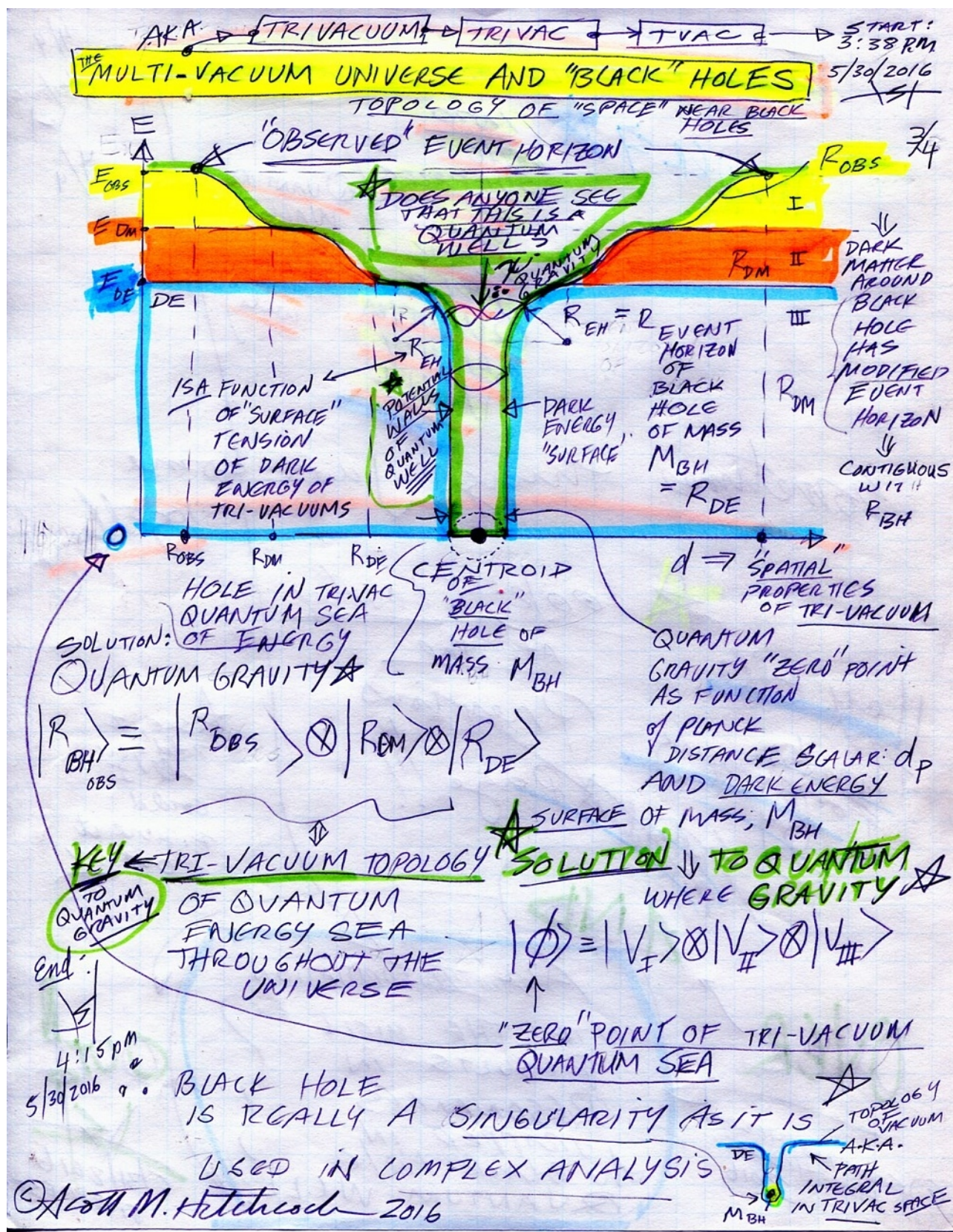
* FIRST THOUGHTS: ABOUT MISSING MASS/ENERGY PROBLEM, MISSING MASS/ENERGY IS EMBEDDED IN VACUUM WHERE VACUUM HAS AT LEAST 3 STATES (TOPOLOGICAL INTERFACES) DEPENDING ON DISTRIBUTION OF OBSERVABLE MATTER/ENERGY \Rightarrow NOTE GRAVITATION EFFECTS ARE TOPOLOGICAL PROPERTIES OF MULTI STATE VACUUM \Rightarrow EXPANSION ACC. OF BIG BANG DUE TO PHASE TRANSITION ENERGY OF $|\psi_{m_m}\rangle \otimes |\psi_{m_e}\rangle$ DE-COUPLING OF VACUUMS

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PAGE 2

EVOLUTION OF VACUUM STATES

→ COSMIC PHASE TRANSITIONS OF "VACUUM"
(LARGE SCALE STRUCTURE OF UNIVERSE)



Poetic excursions: Where is the rest of the Universe?

The rest of the universe is the vacuum of space,
Looking for it in the visible universe may reveal some of it
However, most will remain hidden from our view because
The vacuum is full, Very full...
96% of the universe is the deep sea of vacuum energy and vacuum matter
Lying under the turbulent sea of quantum noise and fluctuations
At the smallest scale but all over the universe on the sea of vacuum energy
Between the photon waves
Exist the islands of matter such as Galaxies, stars, planets, and us...
Everything we can 'see' and 'feel' with our senses
Make up the matter islands that define the sea
The photon waves on this sea are the signals,
All light sources are doorways into the rest of the universe,
Light comes from inside the vacuum
The vacuum is a boundary 'shell' between us,
Eternity,
And the rest of the universe...
We use light to let us know where we are,
Light tells us what the world is made of,
How far away things and people are...
The clocks we use to map patterns of change on the islands of matter,
Use those very signals from deep the vacuum sea.
Lighting candles is more than a symbolic gesture,
When you light a candle,
You open a portal to the place where we all came from...
The light at the end of the tunnel is real,
It is from the great mystery that is the universe,
We are transient surface wave on the sea of eternity,
Beneath the sea is where all our loved ones reside as pure energy,
It is where we go when the matter that forms our body loses its coherence...
The dissolution of the 'I' that we hear in our heads,
That starts most of our sentences is the
The 'I' that becomes the 'eye' looking into eternity...
Illuminated by light from inside the vacuum,
We may be energized stardust in this life, but
We will all be photons surfing eternity...